

SEARCH REQUEST FORM

Requestor's
Name:

Kaufman - Rm 10E07

Serial

Number: 08/878/168

Date:

6/12/98

Phone:

305-5791

Art Unit:

1646

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

Please search SEQ ID NO:1-4

- Fragment of SEQ ID NO:1 from amino acid 1-161,

in commercial, issued & pending patents databases.

Please put results on disk.

Thanks,
Claire

STAFF USE ONLY

Date completed: 6-22-98

Searcher:

MACK

Terminal time:

12

Elapsed time:

1:15

CPU time:

Total time:

15

Number of Searches:

1

Number of Databases:

1

Search Site

☐ STIC☒ CM-1☐ Pre-S

Type of Search

☐ N.A. Sequence☒ A.A. Sequence☐ Structure☐ Bibliographic

Vendors

☒ IG Suite☐ STN☐ Dialog☐ APS☐ Geninfo☐ SDC☐ DARC/Questel☐ Other

RESULT 1: Comparison to SEQ ID NO:4 (Qy)
 LOCUS AF012536 1180 bp mRNA PRI 21-AUG-1997
 DEFINITION Homo sapiens decoy receptor 1 (DcR1) mRNA, complete cds.
 ACCESSION AF012536
 NID g2338421
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
 Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
 Homo.
 REFERENCE 1 (bases 1 to 1180)
 AUTHORS Sheridan,J.P., Marsters,S.A., Pitti,R.M., Gurney,A., Skubatch,M.,
 Baldwin,D., Ramakrishnan,L., Gray,C.L., Baker,K., Wood,W.I.,
 Goddard,A.D., Godowski,P. and Ashkenazi,A.
 TITLE Control of TRAIL-induced apoptosis by a family of signaling and
 decoy receptors
 JOURNAL Science 277 (5327), 818-821 (1997) 0 *Aug. 8*
 MEDLINE 97390509
 REFERENCE 2 (bases 1 to 1180)
 AUTHORS Sheridan,J.P., Marsters,S.A., Pitti,R.M., Gurney,A., Baldwin,D.,
 Ramakrishnan,L., Gray,C.L., Baker,K., Wood,W.I., Goddard,A.D.,
 Godowski,P. and Ashkenazi,A.
 TITLE Direct Submission
 JOURNAL Submitted (06-JUL-1997) Molecular Oncology, Genentech, 1 DNA Way,
 South San Francisco, CA 94080, USA
 FEATURES Location/Qualifiers
 source 1. .1180
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 gene 1. .1180
 /gene="DcR1"
 CDS 193. .972
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 /note="tumor necrosis factor receptor family member;
 inhibits apoptosis induction by TRAIL/Apo2L"
 /codon_start=1
 /product="decoy receptor 1"
 /db_xref="PID:g2338422"
 /translation="MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVAPQQQ
 RHSFKGEECPAGSHRSEHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKSCT
 MTRDTCVCQCKEGTFRNENSPEMCRKCSRCPGSEVQVSNCTSWDDIQCVEEFGANATVE
 TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG
 TPAPAAEETMTTSPGTPASSHYLSCTIVGIIVLIVLLIVFV"
 BASE COUNT 338 a 326 c 298 g 218 t
 ORIGIN

Query Match 100.0%; Score 1180; DB 22; Length 1180;
 Best Local Similarity 100.0%; Pred. No. 0.00e+00;
 Matches 1180; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 GCTGTGGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGA 60
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 Qy 1 GCTGTGGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGA 60

Db	61	GTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCCTACCGTTAGGGAACTCTGGGGAC	120
Qy	61	GTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCCTACCGTTAGGGAACTCTGGGGAC	120
Db	121	AGAGCGCCCCGGCCGCCTGATGGCCGAGGCAGGGTGC GACCCAGGACCCAGGACGGCGTC	180
Qy	121	AGAGCGCCCCGGCCGCCTGATGGCCGAGGCAGGGTGC GACCCAGGACCCAGGACGGCGTC	180
Db	181	GGGAACCATAACCATGGCCCGGATCCCCAAGACCCTAAAGTTTCGTCGTCGTCATCGTCGCG	240
Qy	181	GGGAACCATAACCATGGCCCGGATCCCCAAGACCCTAAAGTTTCGTCGTCGTCATCGTCGCG	240
Db	241	GTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCC GG CAGGAGGAAGTTCCCCAG	300
Qy	241	GTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCC GG CAGGAGGAAGTTCCCCAG	300
Db	301	CAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGA	360
Qy	301	CAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGA	360
Db	361	TCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACC	420
Qy	361	TCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACC	420
Db	421	AACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAA	480
Qy	421	AACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAA	480
Db	481	CATAAAAGTTCTTGCAACCATGACCAGAGACACAGTGTGT CAGTGTAAAGAAGGCACCTTC	540
Qy	481	CATAAAAGTTCTTGCAACCATGACCAGAGACACAGTGTGT CAGTGTAAAGAAGGCACCTTC	540
Db	541	CGGAATGAAAAC TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTC	600
Qy	541	CGGAATGAAAAC TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTC	600
Db	601	CAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTG TTGAAGAATTTGGTGCCAAT	660
Qy	601	CAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTG TTGAAGAATTTGGTGCCAAT	660
Db	661	GCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACC AGCCCGGGGACTCCTGCC	720
Qy	661	GCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACC AGCCCGGGGACTCCTGCC	720
Db	721	CCAGCTGCTGAAGAGACAATGAACACCAGCC CAGGGACTCCTGCCCCAGCTGCTGAAGAG	780
Qy	721	CCAGCTGCTGAAGAGACAATGAACACCAGCC CAGGGACTCCTGCCCCAGCTGCTGAAGAG	780
Db	781	ACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCT GAAGAGACAATGACCACCAGC	840
Qy	781	ACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCT GAAGAGACAATGACCACCAGC	840
Db	841	CCGGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACC ACCAGCCCGGGGACTCCTGCC	900
Qy	841	CCGGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACC ACCAGCCCGGGGACTCCTGCC	900

[illegible]

RESULT 3: Comparison to SEQ ID NO:4 (Qy)
 LOCUS AF016267 1388 bp mRNA PRI 16-OCT-1997
 DEFINITION Homo sapiens TRAIL receptor 3 mRNA, complete cds.
 ACCESSION AF016267
 NID g2529564
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
 Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1388)
 AUTHORS Schneider,P., Bodmer,J.-L., Thome,M., Holler,N., Hofmann,K. and
 Tschopp,J.
 TITLE Characterization of two receptors binding TRAIL
 JOURNAL FEBS Lett. (1997) In press
 REFERENCE 2 (bases 1 to 1388)
 AUTHORS Schneider,P., Bodmer,J.-L., Thome,M., Holler,N., Hofmann,K. and
 Tschopp,J.
 TITLE Direct Submission
 JOURNAL Submitted (28-JUL-1997) Institute of Biochemistry, University of
 Lausanne, Chemin des Boveresses 155, Epalinges, VD 1066,
 Switzerland
 FEATURES Location/Qualifiers
 source 1. .1388
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /dev_stage="fetal"
 /tissue_type="liver and spleen"
 CDS 188. .967
 /function="binds cytotoxic ligand TRAIL"
 /note="DR4 homolog; contains no intracellular domain"
 /codon_start=1
 /product="TRAIL receptor 3"
 /db_xref="PID:g2529565"
 /translation="MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVPAPQQQ
 RHSFKGEECPAGSHRSEHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKSCT
 MTRDITVCQCKEGTFRNVNSPEMCRKCSRCPGSEVQVSNCTSWDDIQCVVEFGANATVE
 TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG
 TPAPAAEETMTTSPGTPASSHYLSCTIVGIIIVLIVLLIVFV"
 BASE COUNT 331 a 415 c 368 g 274 t
 ORIGIN

Query Match 92.0%; Score 1086; DB 22; Length 1388;
 Best Local Similarity 99.7%; Pred. No. 0.00e+00;
 Matches 1094; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

Db 13 CACGCGCACGAACCTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 72
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 Qy 17 CACGCGCACGAACCTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 76
 |||
 Db 73 AAGGGGTGAAGGAGCGCTTCTACCGTTAGG-AACTCTGGGGACAGAGCGCCCGGCCGC 131
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 Qy 77 AAGGGGTGAAGGAGCGCTTCTACCGTTAGGGAACCTCTGGGGACAGAGCGCCCGGCCGC 136
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 Db 132 CTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG 191

Qy	137	CTGATGGCCGAGGCAGGGTGCAGCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG	196
Db	192	CCCGGATCCCCAAGACCCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCAGTCC	251
Qy	197	CCCGGATCCCCAAGACCCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCAGTCC	256
Db	252	TAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	311
Qy	257	TAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	316
Db	312	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	371
Qy	317	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	376
Db	372	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	431
Qy	377	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	436
Db	432	AACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCTTGCA	491
Qy	437	AACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCTTGCA	496
Db	492	CCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGTTAACTCCC	551
Qy	497	CCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGAAAACCTCCC	556
Db	552	CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA	611
Qy	557	CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA	616
Db	612	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	671
Qy	617	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	676
Db	672	CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	731
Qy	677	CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	736
Db	732	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	791
Qy	737	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	796
Db	792	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	851
Qy	797	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	856
Db	852	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	911
Qy	857	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	916
Db	912	CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA	971
Qy	917	CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA	976

[illegible]

RESULT 1: Comparison to SEQ ID NO:2 (Qy)
 LOCUS AF012536 1180 bp mRNA PRI 21-AUG-1997
 DEFINITION Homo sapiens decoy receptor 1 (DcR1) mRNA, complete cds.
 ACCESSION AF012536
 NID g2338421
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
 Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
 Homo.
 REFERENCE 1 (bases 1 to 1180)
 AUTHORS Sheridan,J.P., Marsters,S.A., Pitti,R.M., Gurney,A., Skubatch,M.,
 Baldwin,D., Ramakrishnan,L., Gray,C.L., Baker,K., Wood,W.I.,
 Goddard,A.D., Godowski,P. and Ashkenazi,A.
 TITLE Control of TRAIL-induced apoptosis by a family of signaling and
 decoy receptors
 JOURNAL Science 277 (5327), 818-821 (1997)
 MEDLINE 97390509
 REFERENCE 2 (bases 1 to 1180)
 AUTHORS Sheridan,J.P., Marsters,S.A., Pitti,R.M., Gurney,A., Baldwin,D.,
 Ramakrishnan,L., Gray,C.L., Baker,K., Wood,W.I., Goddard,A.D.,
 Godowski,P. and Ashkenazi,A.
 TITLE Direct Submission
 JOURNAL Submitted (06-JUL-1997) Molecular Oncology, Genentech, 1 DNA Way,
 South San Francisco, CA 94080, USA
 FEATURES Location/Qualifiers
 source 1. .1180
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
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 CDS 193. .972
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 inhibits apoptosis induction by TRAIL/Apo2L"
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 TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG
 TPAPAAEETMTTSPGTPASSHYLSCTIVGIIIVLIVLLIVFV"
 BASE COUNT 338 a 326 c 298 g 218 t
 ORIGIN

Query Match 100.0%; Score 1180; DB 22; Length 1180;
 Best Local Similarity 100.0%; Pred. No. 0.00e+00;
 Matches 1180; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 GCTGTGGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGA 60
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 Qy 1 GCTGTGGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGA 60

Db	61	GT TTG ACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGGGGAC	120
Qy	61	GT TTG ACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGGGGAC	120
Db	121	AGAGCGCCCCGGCCGCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTC	180
Qy	121	AGAGCGCCCCGGCCGCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTC	180
Db	181	GGGAACCATAACCATGGCCCCGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCG	240
Qy	181	GGGAACCATAACCATGGCCCCGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCG	240
Db	241	GTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAG	300
Qy	241	GTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAG	300
Db	301	CAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGA	360
Qy	301	CAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGA	360
Db	361	TCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACC	420
Qy	361	TCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACC	420
Db	421	AACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAA	480
Qy	421	AACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAA	480
Db	481	CATAAAAGTTTCTGCAACCATGACCAGAGACACAGTGTGTAGTGTAAAGAAGGCACCTTC	540
Qy	481	CATAAAAGTTTCTGCAACCATGACCAGAGACACAGTGTGTAGTGTAAAGAAGGCACCTTC	540
Db	541	CGGAATGAAAACCTCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTC	600
Qy	541	CGGAATGAAAACCTCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTC	600
Db	601	CAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAAT	660
Qy	601	CAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAAT	660
Db	661	GCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCCGGGGACTCCTGCC	720
Qy	661	GCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCCGGGGACTCCTGCC	720
Db	721	CCAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAG	780
Qy	721	CCAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAG	780
Db	781	ACAATGACCACCAGCCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGC	840
Qy	781	ACAATGACCACCAGCCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGC	840
Db	841	CCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCCGGGGACTCCTGCC	900
Qy	841	CCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCCGGGGACTCCTGCC	900

[illegible]

RESULT 3: Comparison to SEQ ID NO:2 (Qy)
 LOCUS AF016267 1388 bp mRNA PRI 16-OCT-1997
 DEFINITION Homo sapiens TRAIL receptor 3 mRNA, complete cds.
 ACCESSION AF016267
 NID g2529564
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
 Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1388)
 AUTHORS Schneider,P., Bodmer,J.-L., Thome,M., Holler,N., Hofmann,K. and
 Tschopp,J.
 TITLE Characterization of two receptors binding TRAIL
 JOURNAL FEBS Lett. (1997) In press
 REFERENCE 2 (bases 1 to 1388)
 AUTHORS Schneider,P., Bodmer,J.-L., Thome,M., Holler,N., Hofmann,K. and
 Tschopp,J.
 TITLE Direct Submission
 JOURNAL Submitted (28-JUL-1997) Institute of Biochemistry, University of
 Lausanne, Chemin des Boveresses 155, Epalinges, VD 1066,
 Switzerland

FEATURES Location/Qualifiers
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 /db_xref="taxon:9606"
 /dev_stage="fetal"
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 CDS 188. .967
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 /note="DR4 homolog; contains no intracellular domain"
 /codon_start=1
 /product="TRAIL receptor 3"
 /db_xref="PID:g2529565"
 /translation="MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPPQQTVPAPQQQ
 RHSFKGEECPAGSHRSEHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKSCT
 MTRDTVCQCKEGTFRNVNSPEMCRKCSRCPGSEVQVSNCTSWDDIQVVEFGANATVE
 TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG
 TPAPAAEETMTTSPGTPASSHYLSCTIVGIIVLIVLLIVFV"

BASE COUNT 331 a 415 c 368 g 274 t
 ORIGIN

Query Match 92.0%; Score 1086; DB 22; Length 1388;
 Best Local Similarity 99.7%; Pred. No. 0.00e+00;
 Matches 1094; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

Db 13 CACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 72
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 Qy 17 CACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 76
 Db 73 AAGGGGTGAAGGAGCGCTTCCTACCGTTAGG-AACTCTGGGGACAGAGCGCCCCGGCCGC 131
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 Qy 77 AAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAAGTCTGGGGACAGAGCGCCCCGGCCGC 136
 Db 132 CTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG 191

Qy	137	CTGATGGCCGAGGCAGGGTGC	196
Db	192	CCCGGATCCCCAAGACCCCTAAAGTTTCGTTCGTTCATCGTCGCGGTCTTGCTGCCAGTCC	251
Qy	197	CCCGGATCCCCAAGACCCCTAAAGTTTCGTTCGTTCATCGTCGCGGTCTTGCTGCCAGTCC	256
Db	252	TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	311
Qy	257	TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	316
Db	312	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	371
Qy	317	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	376
Db	372	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	431
Qy	377	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	436
Db	432	AACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCCCTGCA	491
Qy	437	AACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCCCTGCA	496
Db	492	CCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGTTAACTCCC	551
Qy	497	CCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGTTAACTCCC	556
Db	552	CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA	611
Qy	557	CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA	616
Db	612	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	671
Qy	617	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	676
Db	672	CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	731
Qy	677	CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	736
Db	732	CAATGAACACCAGCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	791
Qy	737	CAATGAACACCAGCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	796
Db	792	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	851
Qy	797	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	856
Db	852	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	911
Qy	857	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	916
Db	912	CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA	971
Qy	917	CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA	976

[illegible]

RESULT 2: Comparison to SEQ ID NO:4 (Qy)
 LOCUS AF033854 1377 bp mRNA PRI 27-NOV-1997
 DEFINITION Homo sapiens lymphocyte inhibitor of TRAIL (LIT) mRNA, complete cds.
 ACCESSION AF033854
 NID g2645841
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1377)
 AUTHORS Mongkolsapaya, J., Cowper, A., Xu, X., Morris, G., McMichael, A. J., Bell, J. I. and Screaton, G. R.
 TITLE Lymphocyte inhibitor of TRAIL: A new receptor protecting lymphocytes from the death ligand TRAIL
 JOURNAL J. Immunol. ~~(1997) In press~~ 160(1): 3-6, Jan. 1, 1998
 REFERENCE 2 (bases 1 to 1377)
 AUTHORS Mongkolsapaya, J., Cowper, A., Xu, X., Morris, G., McMichael, A. J., Bell, J. I. and Screaton, G. R.
 TITLE Direct Submission
 JOURNAL Submitted (10-NOV-1997) Immunology, Institute of Molecular Medicine, John Radcliffe Hospital, Headington, Oxford OX3 9DS, UK
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 BASE COUNT 335 a 409 c 365 g 268 t
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 Best Local Similarity 100.0%; Pred. No. 0.00e+00;
 Matches 1097; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	137	CTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATAACCATGG	196
Db	181	CCCGGATCCCCAAGACCCATAAGTTTCGTTCGTTCATCGTCGCGGTCTGTGCCAGTCC	240
Qy	197	CCCGGATCCCCAAGACCCATAAGTTTCGTTCGTTCATCGTCGCGGTCTGTGCCAGTCC	256
Db	241	TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	300
Qy	257	TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	316
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Qy	317	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	376
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Qy	617	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	676
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Qy	677	CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	736
Db	721	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	780
Qy	737	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	796
Db	781	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	840
Qy	797	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	856
Db	841	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	900
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 Db 961 CTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGTAGGCGCTGGCTGAGGG 1020
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RESULT 2: Comparison to SEQ ID NO:2 (Qy)
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 ACCESSION AF033854
 NID g2645841
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
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 REFERENCE 1 (bases 1 to 1377)
 AUTHORS Mongkolsapaya,J., Cowper,A., Xu,X., Morris,G., McMichael,A.J., Bell,J.I. and Screaton,G.R.
 TITLE Lymphocyte inhibitor of TRAIL: A new receptor protecting lymphocytes from the death ligand TRAIL
 JOURNAL J. Immunol. (1997) In press
 REFERENCE 2 (bases 1 to 1377)
 AUTHORS Mongkolsapaya,J., Cowper,A., Xu,X., Morris,G., McMichael,A.J., Bell,J.I. and Screaton,G.R.
 TITLE Direct Submission
 JOURNAL Submitted (10-NOV-1997) Immunology, Institute of Molecular Medicine, John Radcliffe Hospital, Headington, Oxford OX3 9DS, UK
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 CDS 177. .956
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 BASE COUNT 335 a 409 c 365 g 268 t
 ORIGIN

Query Match 93.0%; Score 1097; DB 22; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 0.00e+00;
 Matches 1097; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 CACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 60
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Qy	77	AAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACCTCTGGGGACAGAGCGCCCCGGCCGC	136
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Qy	137	CTGATGGCCGAGGCAGGGTGCAGCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG	196
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Qy	197	CCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTTGCTGCCAGTCC	256
Db	241	TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	300
Qy	257	TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	316
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Qy	317	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	376
Db	361	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	420
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Qy	737	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	796
Db	781	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	840
Qy	797	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	856
Db	841	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	900
Qy	857	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	916

Db	901	CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA	960
Qy	917	CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA	976
Db	961	CTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGTAGGCGCTGGCTGAGGG	1020
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Qy	1037	CGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCACAGACAGAAAC	1096
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Qy 837 CAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCC 896

Db 854 TGCCTCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCT 913
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Qy 897 TGCCTCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCT 956

Db 914 GATTGTGTTTGTGTTGAAAGACTTCACTGTGGAAGAAATTCCTTCTTACCTGAAAGGTTTC 973

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Db 974 AGGTAGGCGCTGGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCT 1033
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Db 1034 GTGTTCCACAGACAGAAACGCCTGCCCCTGCCCCAA 1070
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Qy 1077 GTGTTCCACAGACAGAAACGCCTGCCCCTGCCCCAA 1113

RESULT 4: Comparison to SEQ ID NO:2 (Qy)
 LOCUS AF014794 1365 bp mRNA PRI 13-MAR-1998
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 ACCESSION AF014794
 NID g2957263
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
 Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1365)
 AUTHORS Degli-Esposti, M.A., Smolak, P.J., Walczak, H., Waugh, J., Huang, C.P., DuBose, R.F., Goodwin, R.G. and Smith, C.A.
 TITLE Cloning and characterization of TRAIL-R3, a novel member of the emerging TRAIL receptor family
 JOURNAL J. Exp. Med. 186 (7), 1165-1170 (1997)
 MEDLINE 97461602
 REFERENCE 2 (bases 1 to 1365)
 AUTHORS Degli-Esposti, M.A.
 TITLE Direct Submission
 JOURNAL Submitted (15-JUL-1997) Biochemistry, Immunex, 51 University Street, Seattle, WA 98101, USA
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 BASE COUNT 332 a 403 c 363 g 267 t
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Query Match 89.6%; Score 1057; DB 22; Length 1365;
 Best Local Similarity 100.0%; Pred. No. 0.00e+00;
 Matches 1057; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Qy 57 GGGAGTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGG 116
 Db 74 GGACAGAGCGCCCCGGCCGCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGG 133
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Qy 117 GGACAGAGCGCCCCGCGCCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGG 176

Db 134 CGTCGGGAACCATAACCATGGCCCCGATCCCCAAGACCCTAAAGTTCGTTCGTTCATCGT 193
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Qy 177 CGTCGGGAACCATAACCATGGCCCCGATCCCCAAGACCCTAAAGTTCGTTCGTTCATCGT 236

Db 194 CGCGGTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCC 253
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Db 254 CCAGCAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGC 313
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Qy 297 CCAGCAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGC 356

Db 314 AGGATCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTA 373
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Qy 357 AGGATCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTA 416

Db 374 CACCAACGCTTCCAACAATGAACCTTCTTGC'TTCCCATGTACAGTTTGTAAATCAGATCA 433
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Qy 417 CACCAACGCTTCCAACAATGAACCTTCTTGC'TTCCCATGTACAGTTTGTAAATCAGATCA 476

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Qy 537 CTTCCGGAATGAAAAC'TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGA 596

Db 554 AGTCCAAGTCAGTAATTGTACGTCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGC 613
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Db 1034 GTGTTCCACAGACAGAAACGCCTGCCCCTGCCCCAA 1070
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RESULT 5: Comparison to SEQ ID NO:2 (Qy)
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 DEFINITION Homo sapiens cytotoxic TRAIL receptor-3 (TRAIL-R3) mRNA, complete cds.
 ACCESSION AF020502
 NID g2443819
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
 Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 900)
 AUTHORS MacFarlane,M., Ahmad,M., Srinivasula,S.M., Fernandes-Alnemri,T., Cohen,G.M. and Alnemri,E.S.
 TITLE Identification and Molecular Cloning of Two Novel Receptors for the Cytotoxic ligand TRAIL
 JOURNAL J. Biol. Chem. (1997) ~~In press~~ Oct. 10, 272(41):25417-20,
 REFERENCE 2 (bases 1 to 900)
 AUTHORS MacFarlane,M., Ahmad,M., Srinivasula,S.M., Fernandes-Alnemri,T., Cohen,G.M. and Alnemri,E.S.
 TITLE Direct Submission
 JOURNAL Submitted (21-AUG-1997) Department of Microbiology and Immunology, Kimmel Cancer Institute, 233 S. 10th Street, Philadelphia, PA 19107, USA
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 CDS 1..900
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 Best Local Similarity 99.9%; Pred. No. 2.87e-262;
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Db	61	CCGCCTGATGGCCGAGGCAGGGTGC	GACCCAGGACCCAAGACGGCGTCG	GGGAACCATAACC	120
Qy	133	CCGCCTGATGGCCGAGGCAGGGTGC	GACCCAGGACCCAAGACGGCGTCG	GGGAACCATAACC	192
Db	121	ATGGCCCGGATCCCCAAGACCC	TAAAGTTCGTCGTCGTCATCGTC	CGGTCCTGCTGCCA	180
Qy	193	ATGGCCCGGATCCCCAAGACCC	TAAAGTTCGTCGTCGTCATCGTC	CGGTCCTGCTGCCA	252
Db	181	GTCCTAGCTTACTCTGCCACCACT	GCCC	GGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC	240
Qy	253	GTCCTAGCTTACTCTGCCACCACT	GCCC	GGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC	312
Db	241	CCACAGCAACAGAGGCACAGCTT	CAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCA	300	
Qy	313	CCACAGCAACAGAGGCACAGCTT	CAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCA	372	
Db	301	GAACATACTGGAGCCTGTAACCCGT	GCACAGAGGGTGTGGATTACACCAACGCTTCCAAC	360	
Qy	373	GAACATACTGGAGCCTGTAACCCGT	GCACAGAGGGTGTGGATTACACCAACGCTTCCAAC	432	
Db	361	AATGAACCTTCTTGCTTCCCATGT	ACAGTTTGTAATCAGATCAAAAACATAAAAGTTCC	420	
Qy	433	AATGAACCTTCTTGCTTCCCATGT	ACAGTTTGTAATCAGATCAAAAACATAAAAGTTCC	492	
Db	421	TGCACCATGACCAGAGACACAGTGT	GTCAGTGTAAGAAGGCACCTTCCGGAATGAAAAC	480	
Qy	493	TGCACCATGACCAGAGACACAGTGT	GTCAGTGTAAGAAGGCACCTTCCGGAATGAAAAC	552	
Db	481	TCCCCAGAGATGTGCCGGAAGTGT	AGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	540	
Qy	553	TCCCCAGAGATGTGCCGGAAGTGT	AGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	612	
Db	541	TGTACGTCCTGGGATGATATCCAGTGT	GTTGAAGAAATTTGGTGCCAATGCCACTGTGGAA	600	
Qy	613	TGTACGTCCTGGGATGATATCCAGTGT	GTTGAAGAAATTTGGTGCCAATGCCACTGTGGAA	672	
Db	601	ACCCAGCTGCTGAAGAGACAATGAAC	ACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	660	
Qy	673	ACCCAGCTGCTGAAGAGACAATGAAC	ACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	732	
Db	661	GAGACAATGAACACCAGCCCAGGGACT	CCTGCCCCAGCTGCTGAAGAGACAATGACCACC	720	
Qy	733	GAGACAATGAACACCAGCCCAGGGACT	CCTGCCCCAGCTGCTGAAGAGACAATGACCACC	792	
Db	721	AGCCCGGGGACTCCTGCCCCAGCTGCT	GAAGAGACAATGACCACCAGCCCGGGGACTCCT	780	
Qy	793	AGCCCGGGGACTCCTGCCCCAGCTGCT	GAAGAGACAATGACCACCAGCCCGGGGACTCCT	852	
Db	781	GCCCCAGCTGCTGAAGAGACAATGACC	ACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	840	
Qy	853	GCCCCAGCTGCTGAAGAGACAATGACC	ACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	912	
Db	841	CTCTCATGCACCATCGTAGGGATCAT	AGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	900	
Qy	913	CTCTCATGCACCATCGTAGGGATCAT	AGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	972	

RESULT 5: Comparison to SEQ ID NO:4 (Qy)
 LOCUS AF020502 900 bp mRNA PRI 28-SEP-1997
 DEFINITION Homo sapiens cytotoxic TRAIL receptor-3 (TRAIL-R3) mRNA, complete cds.
 ACCESSION AF020502
 NID g2443819
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
 Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 900)
 AUTHORS MacFarlane,M., Ahmad,M., Srinivasula,S.M., Fernandes-Alnemri,T., Cohen,G.M. and Alnemri,E.S.
 TITLE Identification and Molecular Cloning of Two Novel Receptors for the Cytotoxic ligand TRAIL
 JOURNAL J. Biol. Chem. (1997) In press
 REFERENCE 2 (bases 1 to 900)
 AUTHORS MacFarlane,M., Ahmad,M., Srinivasula,S.M., Fernandes-Alnemri,T., Cohen,G.M. and Alnemri,E.S.
 TITLE Direct Submission
 JOURNAL Submitted (21-AUG-1997) Department of Microbiology and Immunology, Kimmel Cancer Institute, 233 S. 10th Street, Philadelphia, PA 19107, USA

FEATURES Location/Qualifiers
 source 1. .900
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /cell_type="T-lymphocyte"
 /note="Jurkat"
 gene 1. .900
 /gene="TRAIL-R3"
 CDS 1. .900
 /gene="TRAIL-R3"
 /note="TNFR family member; binds cytotoxic ligand TRAIL; antagonistic decoy receptor, does not contain death domain"
 /codon_start=1
 /product="cytotoxic TRAIL receptor-3"
 /db_xref="PID:g2443820"
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 SPEMCRKCSRCPSEVQVSNCTSWDDIQVVEFGANATVETPAAEETMNTSPGTPAPA
 AEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPA
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BASE COUNT 228 a 262 c 240 g 170 t

ORIGIN

Query Match 76.1%; Score 898; DB 22; Length 900;
 Best Local Similarity 99.9%; Pred. No. 2.87e-262;
 Matches 899; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 ATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAAGTCTGGGGACAGAGCGCCCCGG 60
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 Qy 73 ATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAAGTCTGGGGACAGAGCGCCCCGG 132

Db	61	CCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAAAGACGGCGTCGGGAACCATACC	120
Qy	133	CCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATACC	192
Db	121	ATGGCCCGGATCCCCAAGACCCTAAAGTTCGTTCGTTCATCGTCGCGGTCTCTGCTGCCA	180
Qy	193	ATGGCCCGGATCCCCAAGACCCTAAAGTTCGTTCGTTCATCGTCGCGGTCTCTGCTGCCA	252
Db	181	GTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCTCCAGCAGACAGTGGCC	240
Qy	253	GTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCTCCAGCAGACAGTGGCC	312
Db	241	CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCA	300
Qy	313	CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCA	372
Db	301	GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAAC	360
Qy	373	GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAAC	432
Db	361	AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCC	420
Qy	433	AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCC	492
Db	421	TGCACCATGACCAGAGACACAGTGTGTTCAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	480
Qy	493	TGCACCATGACCAGAGACACAGTGTGTTCAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	552
Db	481	TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	540
Qy	553	TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	612
Db	541	TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	600
Qy	613	TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	672
Db	601	ACCCCAGCTGCTGAAGAGACAATGAACACCAGCCCCGGGGACTCCTGCCCCAGCTGCTGAA	660
Qy	673	ACCCCAGCTGCTGAAGAGACAATGAACACCAGCCCCGGGGACTCCTGCCCCAGCTGCTGAA	732
Db	661	GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	720
Qy	733	GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	792
Db	721	AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	780
Qy	793	AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	852
Db	781	GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	840
Qy	853	GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	912
Db	841	CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGA	900
Qy	913	CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGA	972

RESULT 1: Comparison to SEQ ID NO:1 (Qy)

ID O14798 PRELIMINARY; PRT; 299 AA.
AC O14798;
DT 01-JAN-1998 (TREMBLREL. 05, CREATED)
DT 01-JAN-1998 (TREMBLREL. 05, LAST SEQUENCE UPDATE)
DT 01-JAN-1998 (TREMBLREL. 05, LAST ANNOTATION UPDATE)
DE CYTOTOXIC TRAIL RECEPTOR-3.
GN TRAIL-R3.
OS HOMO SAPIENS (HUMAN).
OC EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
OC EUTHERIA; PRIMATES.
RN [1]
RP SEQUENCE FROM N.A.
RA MACFARLANE M., AHMAD M., SRINIVASULA S.M., FERNANDES-ALNEMRI T.,
RA COHEN G.M., ALNEMRI E.S.;
RL J. BIOL. CHEM. 0:0-0(1997).
DR EMBL; AF020502; G2443820; -.
SQ SEQUENCE 299 AA; 31759 MW; 59B93A14 CRC32;

Query Match 100.0%; Score 1783; DB 2; Length 299;
Best Local Similarity 100.0%; Pred. No. 5.99e-239;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db	41	MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVA	PQQQRHSFKGEECPAGSHRS	100
Qy	1	MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVA	PQQQRHSFKGEECPAGSHRS	60
Db	101	EHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKS	SCTMTRDTVCQCKEGTFRNEN	160
Qy	61	EHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKS	SCTMTRDTVCQCKEGTFRNEN	120
Db	161	SPEMCRKCSRCPSGEVQVSNCTSWDDIQVVEFGANATVET	PAAETMNTSPGTPAPAAE	220
Qy	121	SPEMCRKCSRCPSGEVQVSNCTSWDDIQVVEFGANATVET	PAAETMNTSPGTPAPAAE	180
Db	221	ETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTP	PAPAAEETMTTSPGTPASSHY	280
Qy	181	ETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTP	PAPAAEETMTTSPGTPASSHY	240
Db	281	LSCTIVGIIVLIVLLIVFV		299
Qy	241	LSCTIVGIIVLIVLLIVFV		259

RESULT 6: Comparison to SEQ ID NO:2 (Qy)
 LOCUS AF012629 780 bp mRNA PRI 21-AUG-1997
 DEFINITION Homo sapiens antagonist decoy receptor for TRAIL/Apo-2L (TRID)
 mRNA, complete cds.
 ACCESSION AF012629
 NID g2338430
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
 Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
 Homo.
 REFERENCE 1 (bases 1 to 780)
 AUTHORS Pan,G., Ni,J., Wei,Y.F., Yu,G., Gentz,R. and Dixit,V.M.
 TITLE An antagonist decoy receptor and a death domain-containing receptor
 for TRAIL
 JOURNAL Science 277 (5327), 815-818 *Aug. 8* (1997)
 MEDLINE 97390508
 REFERENCE 2 (bases 1 to 780)
 AUTHORS Pan,G., Ni,J., Wei,Y., Yu,G., Gentz,R. and Dixit,V.M.
 TITLE Direct Submission
 JOURNAL Submitted (06-JUL-1997) Pathology, University of Michigan, 1301
 Catherine Road, Room 7518, Ann Arbor, MI 48109, USA
 FEATURES Location/Qualifiers
 source 1. .780
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 gene 1. .780
 /gene="TRID"
 CDS 1. .780
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 /product="antagonist decoy receptor for TRAIL/Apo-2L"
 /db_xref="PID:g2338431"
 /translation="MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVA PQQQ
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 BASE COUNT 202 a 226 c 196 g 156 t
 ORIGIN

Query Match 66.1%; Score 780; DB 22; Length 780;
 Best Local Similarity 100.0%; Pred. No. 2.44e-225;
 Matches 780; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 ATGGCCCGGATCCCCAAGACCTAAAGTTCGTCGTCATCGTCGCGGTCTGCTGCCA 60
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 Qy 193 ATGGCCCGGATCCCCAAGACCTAAAGTTCGTCGTCATCGTCGCGGTCTGCTGCCA 252
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 Db 61 GTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC 120
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 Qy 253 GTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC 312
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 Db 121 CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCAGCAGGATCTCATAGATCA 180

Qy	313	CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCA	372
Db	181	GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGC'TTCCAAC	240
Qy	373	GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGC'TTCCAAC	432
Db	241	AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAAGTTCC	300
Qy	433	AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAAGTTCC	492
Db	301	TGCACCATGACCAGAGACACAGTGTGTCAAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	360
Qy	493	TGCACCATGACCAGAGACACAGTGTGTCAAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	552
Db	361	TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	420
Qy	553	TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	612
Db	421	TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	480
Qy	613	TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	672
Db	481	ACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	540
Qy	673	ACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	732
Db	541	GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	600
Qy	733	GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	792
Db	601	AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	660
Qy	793	AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	852
Db	661	GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	720
Qy	853	GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	912
Db	721	CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	780
Qy	913	CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	972

RESULT 6: Comparison to SEQ ID NO:4 (Qy)
 LOCUS AF012629 780 bp mRNA PRI 21-AUG-1997
 DEFINITION Homo sapiens antagonist decoy receptor for TRAIL/Apo-2L (TRID)
 mRNA, complete cds.
 ACCESSION AF012629
 NID g2338430
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
 Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
 Homo.
 REFERENCE 1 (bases 1 to 780)
 AUTHORS Pan,G., Ni,J., Wei,Y.F., Yu,G., Gentz,R. and Dixit,V.M.
 TITLE An antagonist decoy receptor and a death domain-containing receptor
 for TRAIL
 JOURNAL Science 277 (5327), 815-818 (1997)
 MEDLINE 97390508
 REFERENCE 2 (bases 1 to 780)
 AUTHORS Pan,G., Ni,J., Wei,Y., Yu,G., Gentz,R. and Dixit,V.M.
 TITLE Direct Submission
 JOURNAL Submitted (06-JUL-1997) Pathology, University of Michigan, 1301
 Catherine Road, Room 7518, Ann Arbor, MI 48109, USA
 FEATURES Location/Qualifiers
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 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 gene 1. .780
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 CDS 1. .780
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 /product="antagonist decoy receptor for TRAIL/Apo-2L"
 /db_xref="PID:g2338431"
 /translation="MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVAPOQQ
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 MTRDTCVCQCKEGTFRNENSPEMCRKCSRCPGSEVQVSNCTSWDDIQVEEFGANATVE
 TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG
 TPAPAAEETMTTSPGTPASSHYLSCTIVGIIVLIVLLIVFV"
 BASE COUNT 202 a 226 c 196 g 156 t
 ORIGIN

Query Match 66.1%; Score 780; DB 22; Length 780;
 Best Local Similarity 100.0%; Pred. No. 2.44e-225;
 Matches 780; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 ATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCA 60
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Qy 193 ATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCA 252
 Db 61 GTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC 120
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Qy 253 GTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC 312
 Db 121 CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCACAGCAGGATCTCATAGATCA 180

Qy	313	CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCAGCAGGATCTCATAGATCA	372
Db	181	GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAAC	240
Qy	373	GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAAC	432
Db	241	AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAACATAAAAGTTCC	300
Qy	433	AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAACATAAAAGTTCC	492
Db	301	TGCACCATGACCAGAGACACAGTGTGTCTAGTGTAAGAAGGCACCTTCCGGAATGAAAAC	360
Qy	493	TGCACCATGACCAGAGACACAGTGTGTCTAGTGTAAGAAGGCACCTTCCGGAATGAAAAC	552
Db	361	TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	420
Qy	553	TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	612
Db	421	TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	480
Qy	613	TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	672
Db	481	ACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	540
Qy	673	ACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	732
Db	541	GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	600
Qy	733	GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	792
Db	601	AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	660
Qy	793	AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	852
Db	661	GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	720
Qy	853	GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	912
Db	721	CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	780
Qy	913	CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	972